PITTSBURGH® AUTOMOTIVE

Engine Compression Tester Set

Item 46800

⚠WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

When unpacking, make sure that the product is intact and undamaged.
If any parts are missing or broken, please call 1-800-444-3353 as soon as possible.

Visit our website at: http://www.harborfreight.com

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Manual Revised 11b

SPECIFICATIONS TABLE

Material	Carbon Steel, Hardened Tips, High Pressure Hose
Finish	Chrome Plated Guage, Black Oxide Adapters with Zinc
Weight	11 lb

SAVE THIS MANUAL

You will need this manual for the safety warnings and precautions, applications instructions, inspection, maintenance, and cleaning procedures. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.

GENERAL SAFETY WARNINGS AND PRECAUTIONS

1. **KEEP WORK AREA CLEAN AND DRY.** Cluttered, damp or wet work areas invite injuries.

2. **KEEP CHILDREN AWAY FROM WORK AREA.** Do not allow children to handle this product.

3. **STORE IDLE EQUIPMENT.** When not in use, tools and equipment should be stored in a dry location to inhibit rust. Always lock up tools and equipment and keep out of reach of children.

4. **DO NOT USE THIS PRODUCT IF UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not attempt to use this product.

5. **USE EYE PROTECTION.** Wear ANSI approved safety impact eyeglasses when using this product.

6. **DRESS SAFELY.** Non-skid footwear or safety shoes should be used when working with this product. Do not wear loose clothing or jewelry as they can become caught in moving parts. Wear a protective hair covering to prevent long hair from becoming caught in moving parts. If wearing a long-sleeve shirt, roll sleeves up above elbows.

7. **INDUSTRIAL APPLICATIONS MUST FOLLOW OSHA REQUIREMENTS.**

8. **DO NOT OVERREACH.** Keep proper footing and balance at all times to prevent tripping, falling, back injury, etcetera.

9. **STAY ALERT.** Watch what you are doing at all times. Use common sense. Do not use this product when you are tired or distracted from the job at hand.

10. **CHECK FOR DAMAGED PARTS.** Before using this product, carefully check that it will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the operation of this product. Replace or repair damaged or worn parts immediately.

11. **REPLACEMENT PARTS AND ACCESSORIES.** When servicing, use only

identical replacement parts. Only use accessories intended for use with this product. Approved accessories are available from Harbor Freight Tools.

12. **MAINTAIN THIS PRODUCT WITH CARE.** Keep this tool clean and dry for better and safer performance.

13. **MAINTENANCE:** For your safety, service and maintenance should be performed regularly by a qualified technician.

14. **USE THE RIGHT PRODUCT FOR THE RIGHT JOB**. There are certain applications for which this product was designed. Do not use small equipment, tools or attachment to do the work of larger industrial equipment, tools or attachments. Do not use this product for a purpose for which it was not intended.

15. **PRIOR TO USING THIS PRODUCT, READ AND UNDERSTAND ALL INSTRUCTIONS AND SAFETY PRECAUTIONS AS OUTLINED IN THE VEHICLE MANUFACTURER'S MANUAL AND ENGINE DIAGNOSTIC/REPAIR MANUALS.**

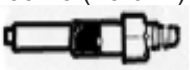
16. **WARNING:** This product contains or produces a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5 *et seq*.)

PRODUCT OVERVIEW

The Engine Compression Test Set measures cylinder pressure on diesel-equipped cars and trucks. The Gauge (1) features a release valve, 14.5” of high pressure hose, a dial reading from 0-1,000 PSI, a 0-70 bar, and a swivel end quick coupler for convenient connection to the Adapters (2 through 14).

APPLICATIONS TABLE

NOTE: All parts mentioned below refer to the parts shown on page 6 of this manual.

Part	Application	Engine	Testing Port	Thread
260-05 (Part # 2)	Bacharach	Allow a Bacharach Brand adapter to be used without tester. No. 260-01		
260-14 (Part #3)	Case, J. I.	70 series, 188 & 207 C.I.D. pencil nozzle	Fuel Injector	
	Caterpillar	1100 and 3208 series	Fuel Injector	
	Deere, John	Early 300, 400 and 500 series, 276, 404, and 531 C.I.D.	Fuel Injector	
	Waukesha	D155D	Fuel Injector	
260-13 (Part #4) 	Caterpillar	“Capsule” type nozzles including models D-336, 1674, 1676, 3406, 3408 and 3412	Fuel Injector	
260-08 (Part #5)	Cummins	These 5.5” bore engines: NH (855 cubic inches), V-6, V-8, V-12 & 903 v-8 Cylindrical PTB	Fuel Injector	
260-04 (Part #6)	Cummins	V-185, V210, V225, V555, VT-255, VT555	Fuel Injector	
260-12 (Part #7)	Detroit Diesel	53, 71, 92, 110, 149, V53, V71 with low or high clamp injector hold down	Fuel Injector	
260-06 (Part #8)	Mercedes Benz	12mm is for Model 300 & 300 Turbo diesel from 1978 and the 250 & 350 Turbo models. 18mm is for all regulater Mercedes Benz engines & model 300 prior to 1978	Glow plug	12mm-1.25 and 18mm-1.50

Part	Application	Engine	Testing Port	Thread
260-07 (Part #9)	Allis Chalmers	6000, 7000, 10000, 11000	Fuel Injector	
	Bedford	200, 220, 300, 330, 466	Fuel Injector	
	Case, J. I.	All models not using pencil nozzle	Fuel Injector	
	Deere, John	404, 466, 531, 619	Fuel Injector	
	Fiat Allis	8035-02-300, 8035-02-301, 8035-02-302, 8045-02, 8045-03	Fuel Injector	
	Ford Tractor	All	Fuel Injector	
	International Harvester	D/DT 361, D/DT 429, DV 462, DV/DVT 550, DT/DV/DVT 573, 361, 407	Fuel Injector	
	Mack Truck	END 405, 457, 475, 510, 519, 605, 672, 673, 674, 711, 864, ENDT-673, 675, 676, 865, 866	Fuel Injector	
	Onan	DSL, MDSL	Fuel Injector	
	Waukesha	These 5.5” bore engines: NH (855 cubic inches), V-6, V-8, V-12 & 903 V-8 Cylindrical PTB	Fuel Injector	
260-09 (Part #10)	BMW	2.4 liter	Glow plug	12mm-1.25mm
	Lincoln Continental Mark VII	1984 and 1985 car models	Glow plug	12mm-1.25mm
	Peugeot	For Peugeot diesel passenger cars having either 12mm-1.25mm or 18mm-1.5mm glow plug port holes	Glow plug	12mm-1.25mm and 18mm-1.5mm
260-02 (Part #11)	Ford/Navistar	6.9 and 7.3 liter	Glow plug	10mm-1.00
	General Motors	4.3 and 5.7 liter	Glow plug	10mm-1.00
	Navistar	6.9 and 7.3 liter	Glow plug	10mm-1.00
260-10 (Part #12)	Chevy Luv	1.8 and 2.2 liter	Glow plug	10mm-1.25
	Isuzu	1.8 and 2.2 liter	Glow plug	10mm-1.25
	Toyota	1.8 liter	Glow plug	10mm-1.25
260-03 (Part #13)	Audi	All	Fuel Injector	24mm-2.00
	Cummins	6 BT, 4.02” bore, 5.9 liter	Fuel Injector	24mm-2.00
	Mercedes Benz	Cars & trucks with 24 mm ports	Fuel Injector	24mm-2.00
	Volkswagen	All cars and trucks	Fuel Injector	24mm-2.00
	Volvo	All cars and trucks	Fuel Injector	24mm-2.00
260-11 (Part #14)	General Motors	4.3, 5.7, 6.2 liter, 6.5 liter Turbo	Glow plug	10mm-1.25

NOTE: When testing through the 12mm-1.25 glow plug port, use the inner portion of part #10.

INSPECTION, MAINTENANCE, AND CLEANING

Before each use, inspect the general condition of the Engine Compression Tester Set. Check for cracks, breaks, or bends in the equipment, damaged Gauge Hose (1), and any other condition that may affect its safe operation. If a problem occurs with the equipment, immediately discontinue its use and have the problem corrected before further use. Do not use damaged equipment.

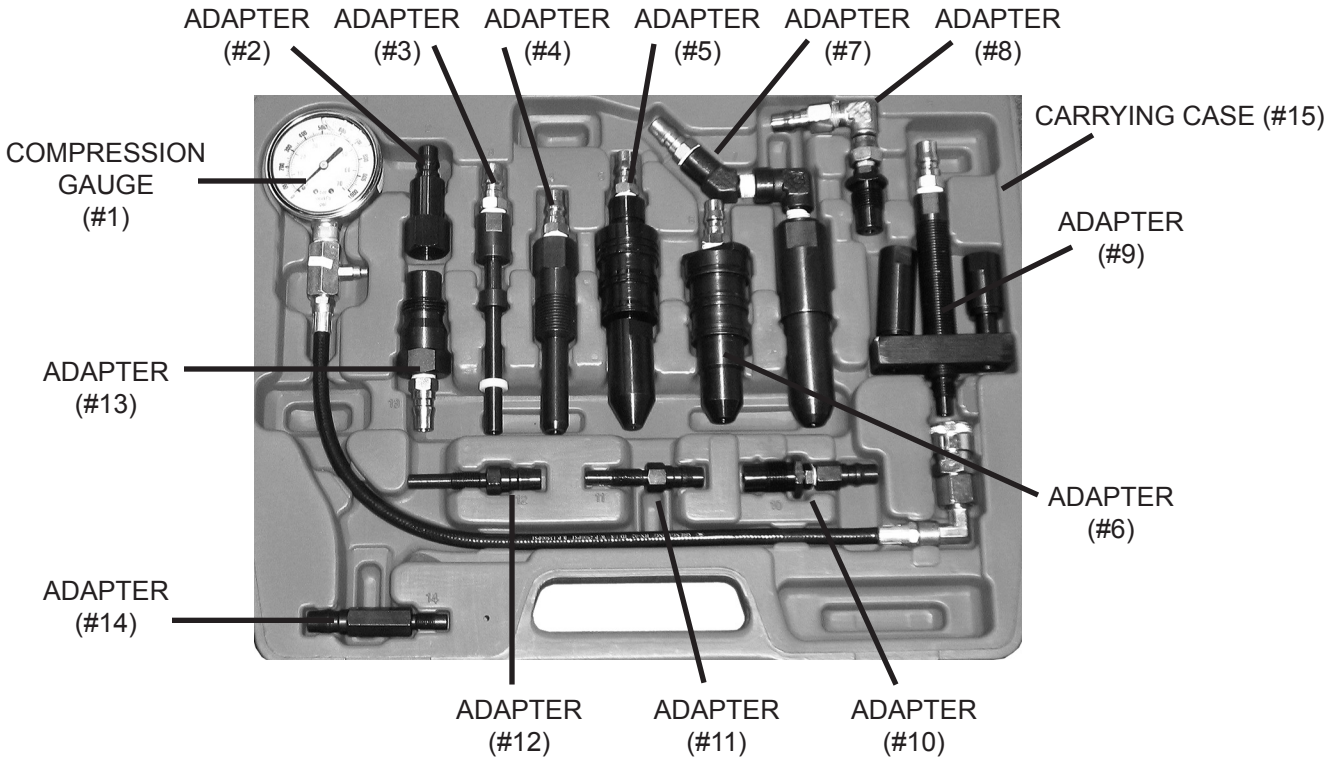
PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

PARTS LIST / ASSEMBLY DIAGRAM

Part	Description	Qty
1	Compression Gauge	1
2	Adapter	1
3	Adapter	1
4	Adapter	1
5	Adapter	1
6	Adapter	1
7	Adapter	1
8	Adapter	1

Part	Description	Qty
9	Adapter	1
10	Adapter	1
11	Adapter	1
12	Adapter	1
13	Adapter	1
14	Adapter	1
15	Carrying Case	1



NOTE: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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